Andreas Karabetian

Software Engineer with 5+ years of have hands-on experience deploying and maintaining full-stack applications using containerization, infrastructure as code, and CI/CD pipelines.

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in andreas-karabetian

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Skills

DevOps Tools:

Docker

Kubernetes

AWS

CI/CD

Git

Github Actions

GitLab

Terraform

Programming Languages:

Python

JavaScript

Other:

System Administration

Linux CLI

Languages

English

Greek

Certificates

AWS Educate Introduction to Cloud 101

The Complete 2023 Web Development Bootcamp

Cambridge English: First (FCE)

Experience

Research Associate
University of Piraeus Research Center

November 2020
December 2025

AI4Gov (2023 – 2025)
- Implemented an interactive dashboard to display all tools and services.
- Automated deployment of project tools and backend services using **CI/CD pipelines** and **containerized microservices**.
- Set up a **GitLab Runner** to automate Docker image creation, push to **GitLab Container Registry**, and deploy to the **production Kubernetes cluster**.

DIASTEMA (2020 – 2023)
- Reduced manual development time by implementing a custom-made **visual programming environment** for building data analytics workflows.
- Worked with **a Kubernetes cluster**, ensuring application availability, resource allocation, and scalability.
- **Containerized applications** using Docker, enabling consistent development and deployment across environments.

Website Developer
Freelancer

2018
Current

- Managing **Linux-based hosting environments**, including setup, configuration, and maintenance of web servers (e.g. Apache, Nginx).
- Handling **DNS configuration**, **SSL setup**, and **domain management** for reliable and secure site deployment.
- Hands-on experience with **cPanel**, **CLI tools**, and **cloud hosting platforms**.

Education

B.Sc., Department of Digital Systems
University of Piraeus

September 2017
September 2023

Gained fundamental knowledge in computer science with a focus on software development principles, system architecture, and DevOps practices such as version control, automation, and cloud infrastructure.

Personal Projects

javascript.gr
- First **open source project** documenting the JavaScript language in Greek, aimed at students and beginner developers.

- Managed user contributions through a **collaborative GitHub repository-**, setting up **branch protection rules**, **code review workflows**, and contribution guidelines.
- Implemented **GitHub Actions** to automate Docker image builds and **deploy to production** on each successful merge.
- Oversaw general **project management**, issue tracking, and community engagement to ensure smooth contribution flow and content quality.

Publications

Published or contributed to:

[Sustainable UI/UX](#) – UI/UX Sustainable Design: Best Practices for Applications CO2 Emissions Reduction (2024).

[Environment for automated cloud services provisioning](#) – A Visual Programming Environment for Describing Complex Big Data Functions (2023).

[White paper on AI4Gov project](#) – AI4Gov: Trusted AI for Transparent Public Governance Fostering Democratic Values (2023).

[Complex math operations in cloud environments](#) – MathBlock: Performing Complex Mathematical Operations on Synthetic Data (2023).

[White paper on DIASTEMA project](#) – Diastema: data–driven stack for big data applications management and deployment (2023).

[Analytics tools for big data](#) – Data Processing Tools for Graph Data Modelling Big Data Analytics (2022).

[Comparing Docker vs Podman](#) – A Comparison of Container Systems for Machine Learning Scenarios: Docker and Podman (2022).

[Automated resource provisioning platform](#) – An Environmentally–sustainable Dimensioning Workbench towards Dynamic Resource Allocation in Cloud–computing Environments (2022).

[Big Data analytics platform](#) – An Autoscaling Platform Supporting Graph Data Modelling Big Data Analytics (2022).